



WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other (Specify) _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Kim 1-17
Doc ID	1057914

Tops

Name	Top	Datum
Anhydrite	2180	+676
Base Anhydrite	2199	+657
Heebner	3927	-1071
Lansing	3970	-1114
Stark	4259	-1403
Pawnee	4452	-1596
Cherokee Sh	4521	-1665
Mississippi	4598	-1742



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Larson Engineering  
 562 West State Rd 4  
 Olmitz KS 67564  
 ATTN: Steve Davis

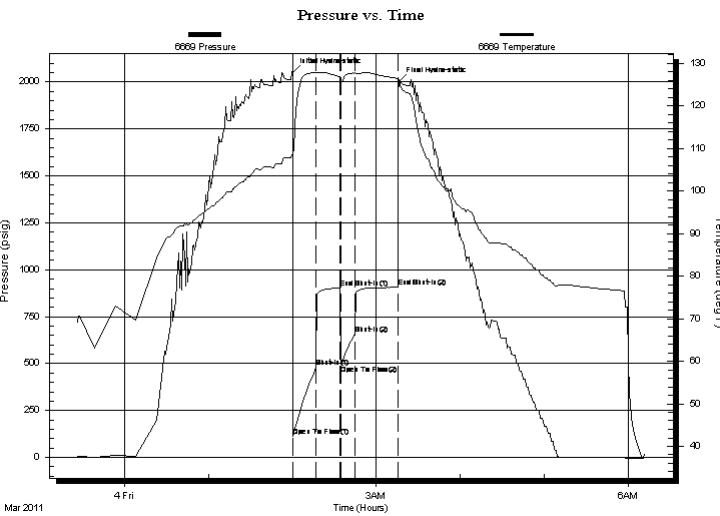
**Kim 1-17**  
**17/19/29/Lane Co KS**  
 Job Ticket: 040693 **DST#: 1**  
 Test Start: 2011.03.03 @ 23:26:15

## GENERAL INFORMATION:

Formation: **H**  
 Deviated: **No Whipstock:** ft (KB)  
 Time Tool Opened: 02:00:30  
 Time Test Ended: 06:12:00  
**Interval: 4152.00 ft (KB) To 4188.00 ft (KB) (TVD)**  
 Total Depth: 4188.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Mike Roberts  
 Unit No: 48  
 Reference Elevations: 2854.00 ft (KB)  
 2849.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 6669 Outside**  
 Press @ Run Depth: 657.95 psig @ 4183.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.03.03 End Date: 2011.03.04 Last Calib.: 2011.03.04  
 Start Time: 23:26:15 End Time: 06:12:00 Time On Btm: 2011.03.04 @ 02:00:15  
 Time Off Btm: 2011.03.04 @ 03:16:15

**TEST COMMENT:** IF:BOB in 2 min.  
 IS:No return blow  
 FF:BOB in 1 min.  
 FS:No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2050.99	108.77	Initial Hydro-static
1	115.13	108.82	Open To Flow (1)
17	481.76	127.82	Shut-In(1)
34	903.20	126.79	End Shut-In(1)
35	493.94	126.24	Open To Flow (2)
45	657.95	127.74	Shut-In(2)
76	906.13	126.50	End Shut-In(2)
76	2001.28	126.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1952.00	sw 100%sw	26.34

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering

**Kim 1-17**

562 West State Rd 4  
Olmitz KS 67564

**17/19/29/Lane Co KS**

Job Ticket: 040693

**DST#: 1**

ATTN: Steve Davis

Test Start: 2011.03.03 @ 23:26:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

19000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1952.00	sw 100%sw	26.343

Total Length: 1952.00 ft      Total Volume: 26.343 bbl

Num Fluid Samples: 0

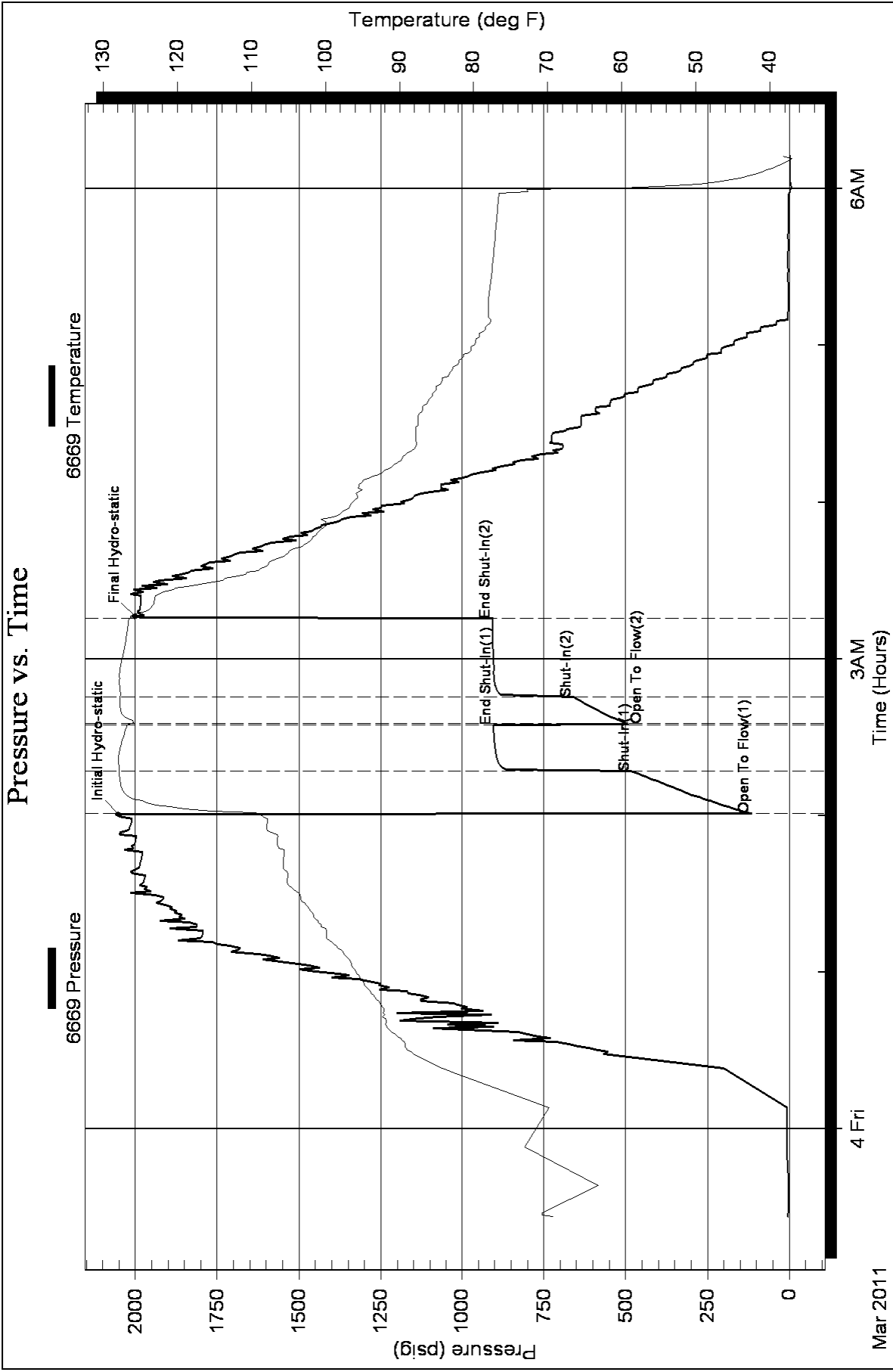
Num Gas Bombs: 0

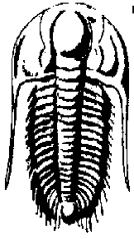
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .369 @ .390 degrees=19,000 ppm





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Larson Engineering  
 562 West State Rd 4  
 Olmitz KS 67564  
 ATTN: Steve Davis

**Kim 1-17**  
**17/19/29/Lane Co KS**  
 Job Ticket: 040694 **DST#: 2**  
 Test Start: 2011.03.04 @ 15:20:15

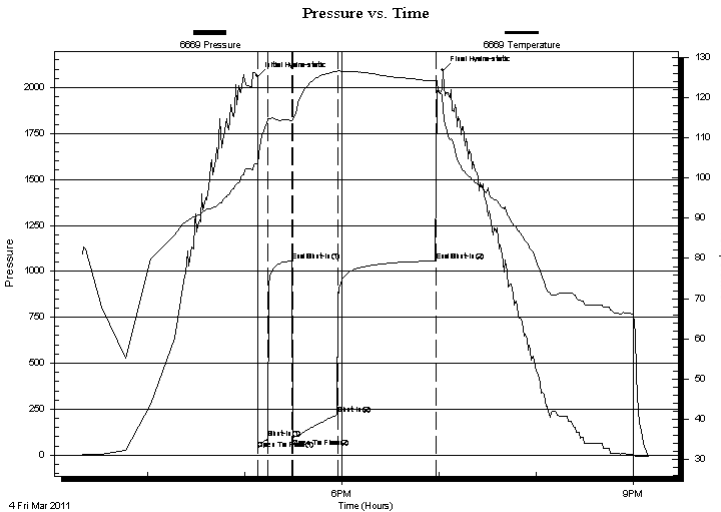
## GENERAL INFORMATION:

Formation: **I**  
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole**  
 Time Tool Opened: **17:08:15** Tester: **Mike Roberts**  
 Time Test Ended: **21:10:15** Unit No: **48**  
**Interval: 4197.00 ft (KB) To 4222.00 ft (KB) (TVD)** Reference Elevations: **2854.00 ft (KB)**  
 Total Depth: **4222.00 ft (KB) (TVD)** **2849.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **5.00 ft**

**Serial #: 6669** **Outside**  
 Press @ Run Depth: **220.96 psig @ 4228.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2011.03.04** End Date: **2011.03.04** Last Calib.: **2011.03.04**  
 Start Time: **15:20:15** End Time: **21:10:15** Time On Btm: **2011.03.04 @ 17:08:00**  
 Time Off Btm: **2011.03.04 @ 19:02:15**

TEST COMMENT: IF: Built to 1 1/2" blow  
 IS: No return blow  
 FF: Built to weak surface bow  
 FS: No return blow

## PRESSURE SUMMARY



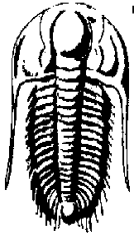
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2060.95	103.44	Initial Hydro-static
1	31.29	103.04	Open To Flow (1)
7	89.48	114.64	Shut-In(1)
22	1057.96	114.29	End Shut-In(1)
22	93.06	114.50	Open To Flow (2)
50	220.96	126.60	Shut-In(2)
110	1057.39	124.12	End Shut-In(2)
115	2093.31	117.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
244.00	sw 100%	2.38
216.00	ocw m 10%o 40%w 50%m	3.03
5.00	Free oil	0.07

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering

**Kim 1-17**

562 West State Rd 4  
Olmitz KS 67564

**17/19/29/Lane Co KS**

Job Ticket: 040694

**DST#: 2**

ATTN: Steve Davis

Test Start: 2011.03.04 @ 15:20:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

20000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
244.00	sw 100%	2.384
216.00	ocw m 10%o 40%w 50%m	3.030
5.00	Free oil	0.070

Total Length: 465.00 ft      Total Volume: 5.484 bbl

Num Fluid Samples: 0

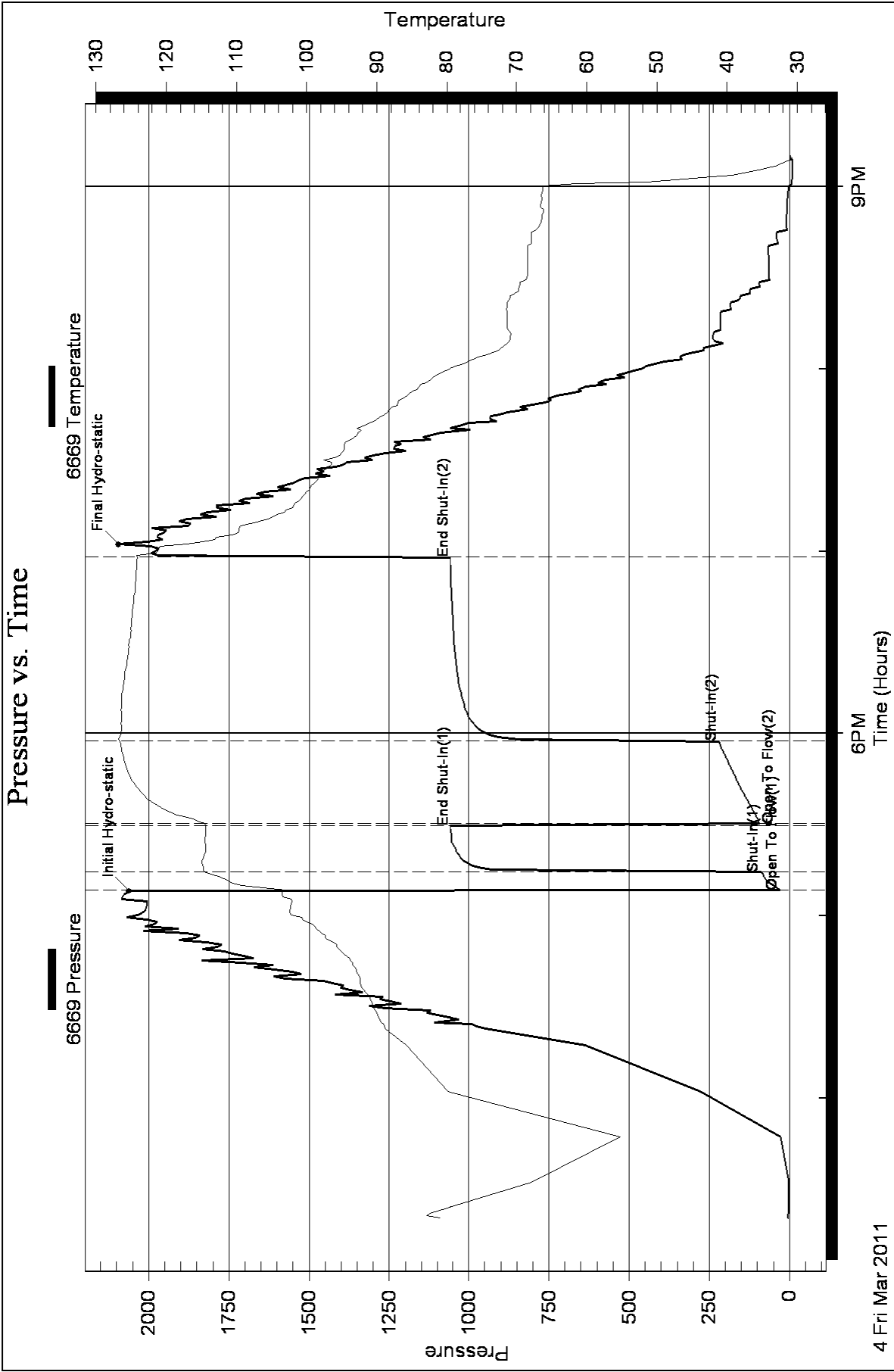
Num Gas Bombs: 0

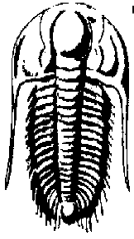
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.372@41 degrees=20,000 ppm





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Larson Engineering  
562 West State Rd 4  
Olmitz KS 67564  
ATTN: Steve Davis

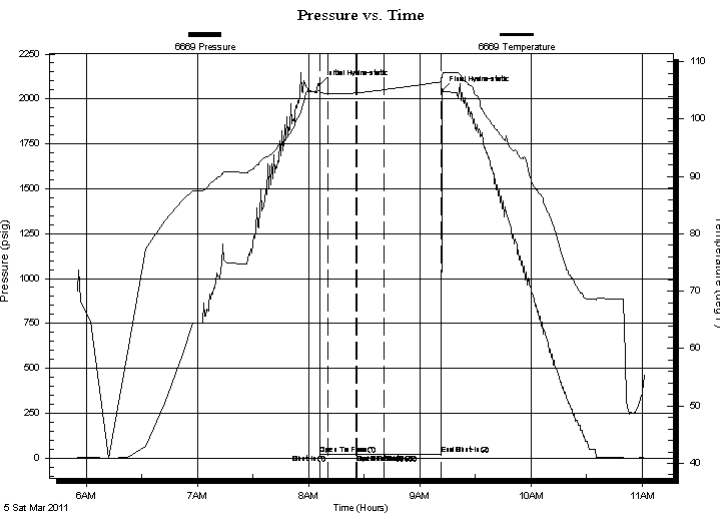
**Kim 1-17**  
**17/19/29/Lane Co KS**  
Job Ticket: 040695 **DST#: 3**  
Test Start: 2011.03.05 @ 05:55:15

## GENERAL INFORMATION:

Formation: "I"  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 08:06:00  
Time Test Ended: 11:01:15  
Interval: **4228.00 ft (KB) To 4245.00 ft (KB) (TVD)**  
Total Depth: 4245.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Mike Roberts  
Unit No: 48  
Reference Elevations: 2854.00 ft (KB)  
2849.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6669 Outside**  
Press @ Run Depth: 18.80 psig @ 4259.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2011.03.05 End Date: 2011.03.05 Last Calib.: 2011.03.05  
Start Time: 05:55:15 End Time: 11:01:15 Time On Btm: 2011.03.05 @ 08:05:45  
Time Off Btm: 2011.03.05 @ 09:12:00

**TEST COMMENT:** IF: Built to a weak surface blow  
IS: No return blow  
FF: Built to a weak surface blow  
FS: No return blow



## PRESSURE SUMMARY

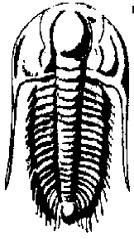
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2077.79	104.98	Initial Hydro-static
1	18.40	104.32	Open To Flow (1)
5	18.20	104.45	Shut-In(1)
20	19.61	104.56	End Shut-In(1)
21	18.42	104.57	Open To Flow (2)
35	18.80	105.13	Shut-In(2)
66	20.50	106.47	End Shut-In(2)
67	2048.17	107.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	m 100% m	0.02

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering

**Kim 1-17**

562 West State Rd 4  
Olmitz KS 67564

**17/19/29/Lane Co KS**

Job Ticket: 040695

**DST#: 3**

ATTN: Steve Davis

Test Start: 2011.03.05 @ 05:55:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	m 100% m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

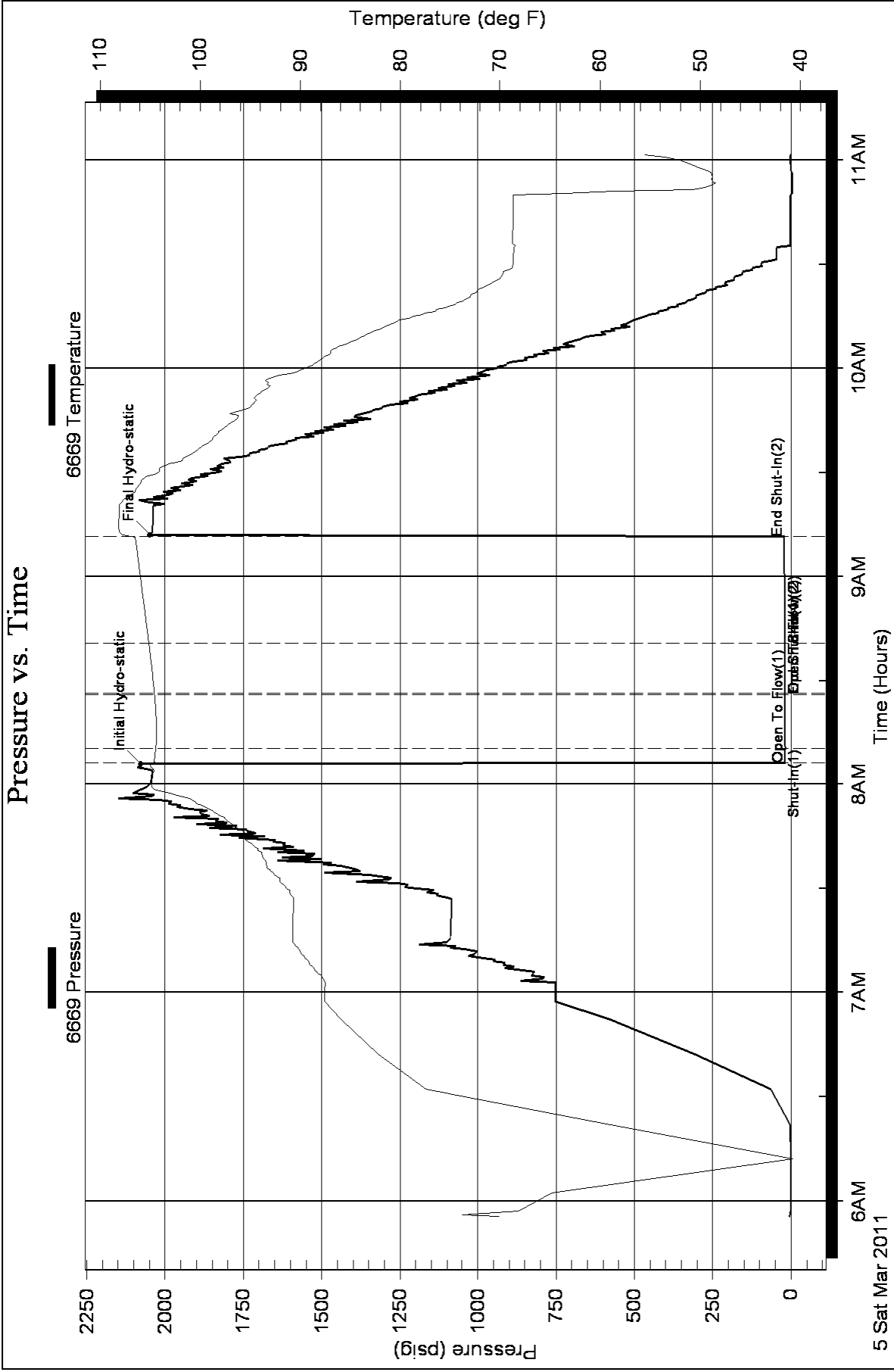
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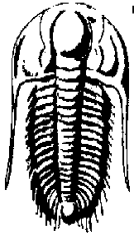
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Larson Engineering  
 562 West State Rd 4  
 Olmitz KS 67564  
 ATTN: Steve Davis

**Kim 1-17**  
**17/19/29/Lane Co KS**  
 Job Ticket: 040696 **DST#: 4**  
 Test Start: 2011.03.05 @ 20:45:15

## GENERAL INFORMATION:

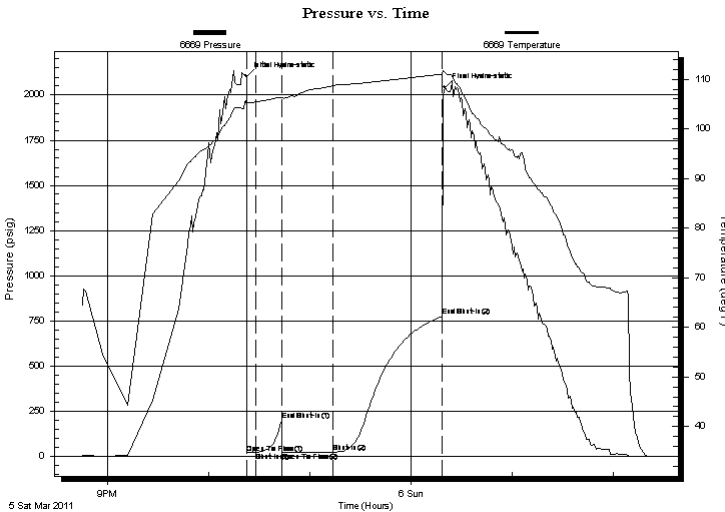
Formation: **K**  
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole**  
 Time Tool Opened: **22:22:30** Tester: **Mike Roberts**  
 Time Test Ended: **02:21:30** Unit No: **48**  
**Interval: 4257.00 ft (KB) To 4285.00 ft (KB) (TVD)** Reference Elevations: **2854.00 ft (KB)**  
 Total Depth: **4285.00 ft (KB) (TVD)** **2849.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **5.00 ft**

## Serial #: 6669 Outside

Press @ Run Depth: **19.22 psig @ 4280.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2011.03.05** End Date: **2011.03.06** Last Calib.: **2011.03.06**  
 Start Time: **20:45:15** End Time: **02:21:30** Time On Btm: **2011.03.05 @ 22:22:15**  
 Time Off Btm: **2011.03.06 @ 00:19:45**

TEST COMMENT: IF: Built to 1/8" blow  
 IS: No return blow  
 FF: Built to weak surface blow then died in 15 min  
 FS: No return blow

## PRESSURE SUMMARY



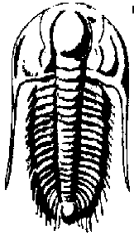
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2103.25	105.76	Initial Hydro-static
1	18.30	104.98	Open To Flow (1)
6	19.63	105.40	Shut-In(1)
21	196.19	106.36	End Shut-In(1)
21	19.60	106.27	Open To Flow (2)
52	19.22	108.71	Shut-In(2)
117	774.67	111.03	End Shut-In(2)
118	2043.68	111.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	m 100% m	0.02

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering

**Kim 1-17**

562 West State Rd 4  
Olmitz KS 67564

**17/19/29/Lane Co KS**

Job Ticket: 040696

**DST#: 4**

ATTN: Steve Davis

Test Start: 2011.03.05 @ 20:45:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	m 100% m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

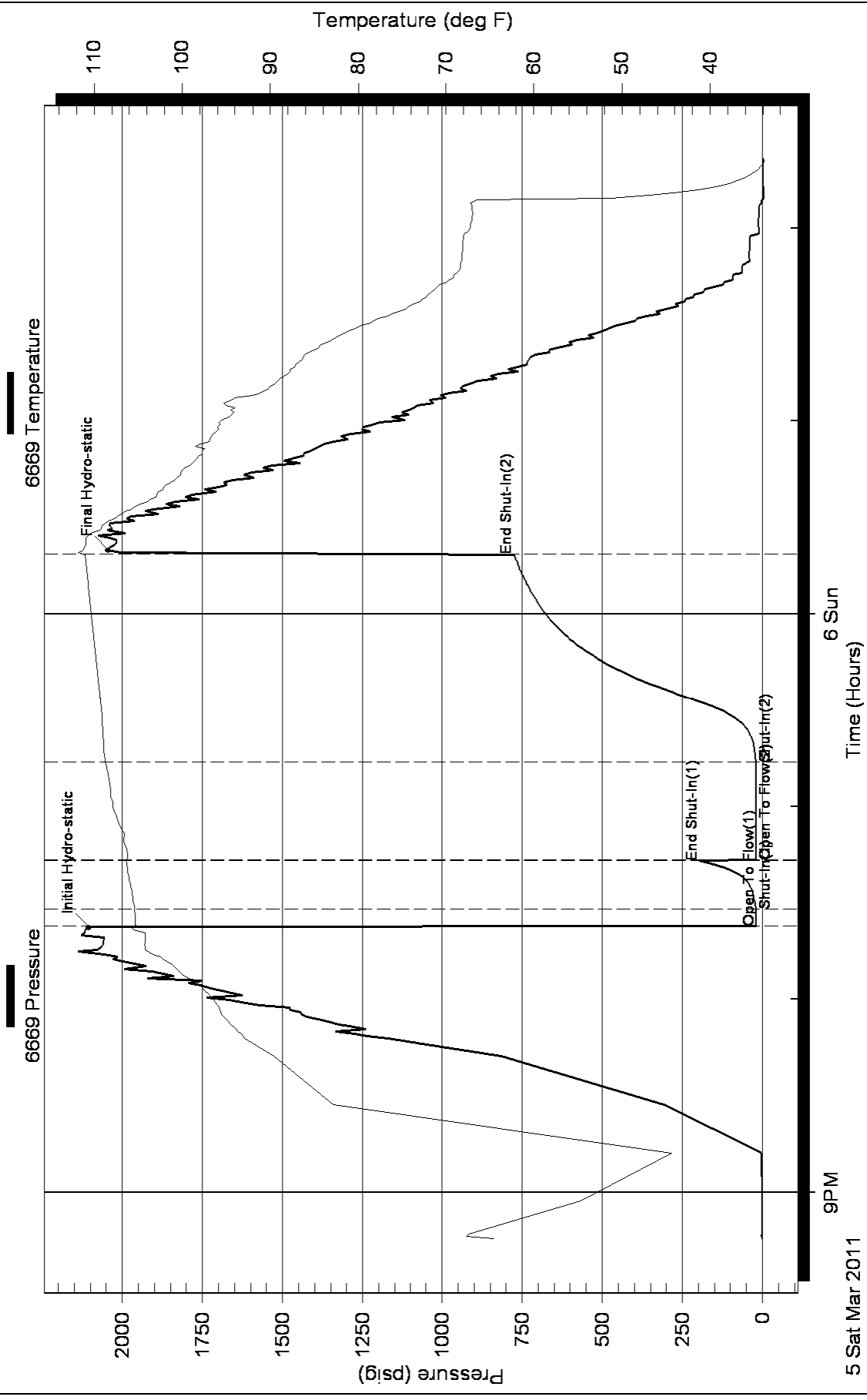
Serial #:

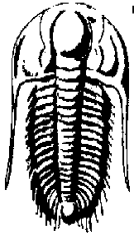
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Larson Engineering  
562 West State Rd 4  
Olmitz KS 67564  
ATTN: Steve Davis

**Kim 1-17**  
**17/19/29/Lane Co KS**  
Job Ticket: 040697 **DST#: 5**  
Test Start: 2011.03.06 @ 09:47:15

## GENERAL INFORMATION:

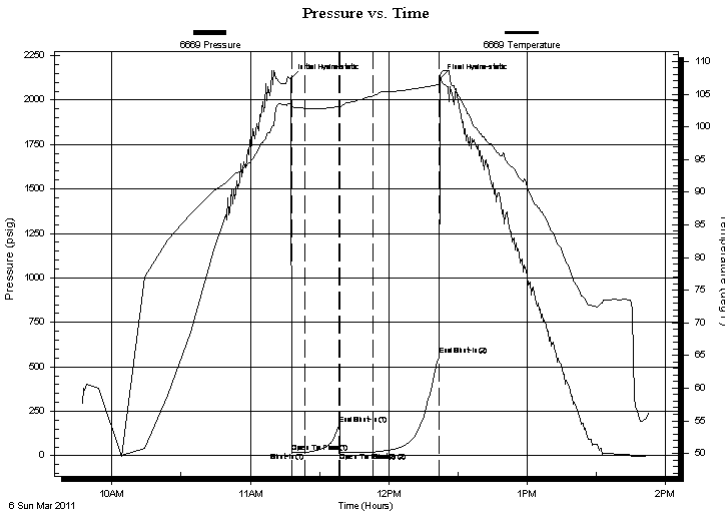
Formation: **Middle Creek**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 11:18:00  
Time Test Ended: 13:53:30  
Interval: **4291.00 ft (KB) To 4306.00 ft (KB) (TVD)**  
Total Depth: 4306.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 2854.00 ft (KB)  
2849.00 ft (CF)  
KB to GR/CF: 5.00 ft  
Test Type: Conventional Bottom Hole  
Tester: Mike Roberts  
Unit No: 48

## Serial #: 6669 Outside

Press @ Run Depth: 19.90 psig @ 4322.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2011.03.06 End Date: 2011.03.06 Last Calib.: 2011.03.06  
Start Time: 09:47:15 End Time: 13:53:30 Time On Btm: 2011.03.06 @ 11:17:45  
Time Off Btm: 2011.03.06 @ 12:22:30

TEST COMMENT: IF:Weak surface blow  
IS:No return blow  
FF:No blow  
FS:No return blow

## PRESSURE SUMMARY



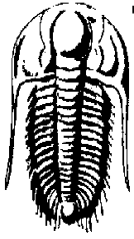
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2119.01	103.55	Initial Hydro-static
1	19.93	103.03	Open To Flow (1)
6	19.14	102.84	Shut-In(1)
21	176.83	103.11	End Shut-In(1)
22	20.39	103.07	Open To Flow (2)
36	19.90	104.74	Shut-In(2)
65	564.46	106.50	End Shut-In(2)
65	2118.60	107.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	m 100 % m	0.02

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering

**Kim 1-17**

562 West State Rd 4  
Olmitz KS 67564

**17/19/29/Lane Co KS**

Job Ticket: 040697

**DST#: 5**

ATTN: Steve Davis

Test Start: 2011.03.06 @ 09:47:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	m 100 % m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

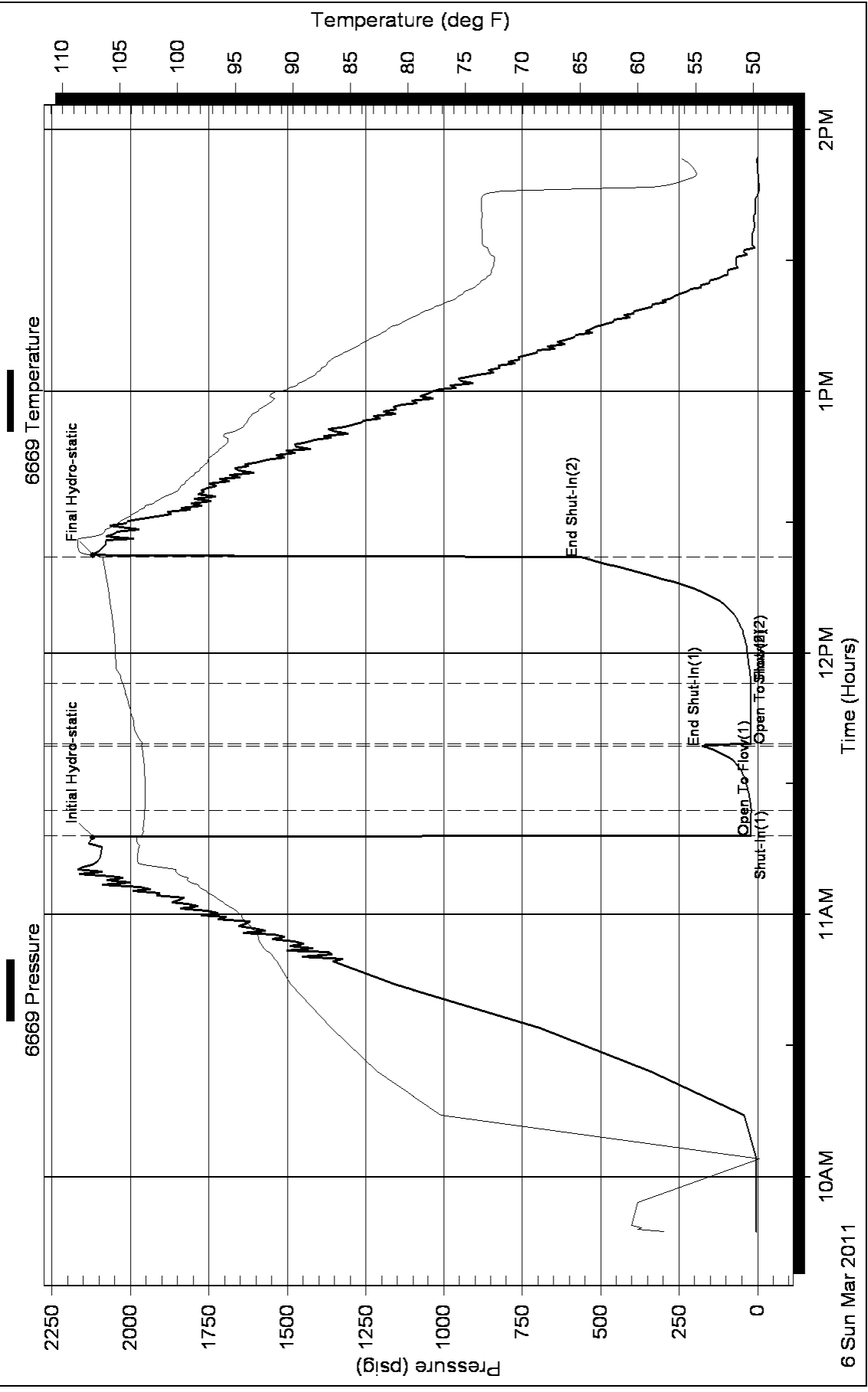
Serial #:

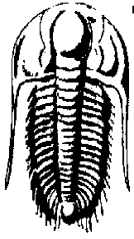
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Larson Engineering  
562 West State Rd 4  
Olmitz KS 67564  
ATTN: Steve Davis

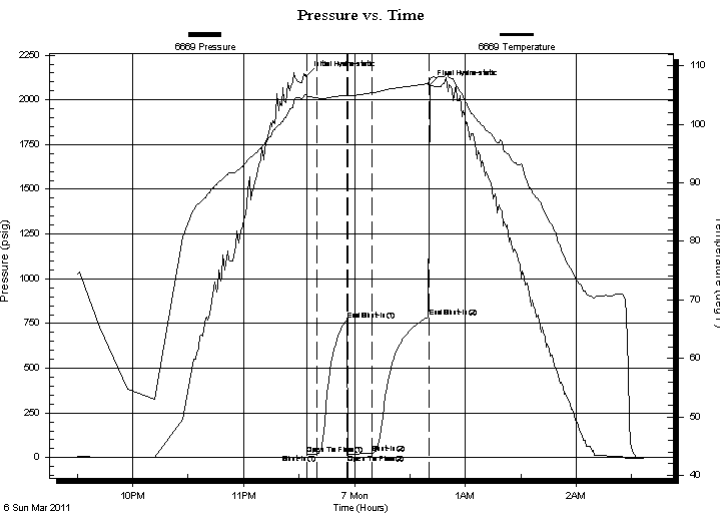
**Kim 1-17**  
**17/19/29/Lane Co KS**  
Job Ticket: 040698 **DST#: 6**  
Test Start: 2011.03.06 @ 21:30:15

## GENERAL INFORMATION:

Formation: **L**  
Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole**  
Time Tool Opened: **23:34:15** Tester: **Mike Roberts**  
Time Test Ended: **02:37:30** Unit No: **48**  
**Interval: 4292.00 ft (KB) To 4320.00 ft (KB) (TVD)** Reference Elevations: **2854.00 ft (KB)**  
Total Depth: **4290.00 ft (KB) (TVD)** **2849.00 ft (CF)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **5.00 ft**

**Serial #: 6669** **Outside**  
Press @ RunDepth: **21.86 psig @ 4315.00 ft (KB)** Capacity: **8000.00 psig**  
Start Date: **2011.03.06** End Date: **2011.03.07** Last Calib.: **2011.03.07**  
Start Time: **21:30:15** End Time: **02:37:30** Time On Btm: **2011.03.06 @ 23:34:00**  
Time Off Btm: **2011.03.07 @ 00:40:45**

TEST COMMENT: IF:Weak surface blow  
IS:No return blow  
FF:No blow  
FS:No return blow



## PRESSURE SUMMARY

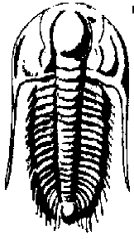
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2133.78	105.03	Initial Hydro-static
1	21.24	104.61	Open To Flow (1)
6	20.31	104.54	Shut-In(1)
22	770.52	105.00	End Shut-In(1)
23	21.32	104.94	Open To Flow (2)
36	21.86	105.42	Shut-In(2)
67	787.63	106.98	End Shut-In(2)
67	2082.52	107.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	m 100% m	0.02

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering

**Kim 1-17**

562 West State Rd 4  
Olmitz KS 67564

**17/19/29/Lane Co KS**

Job Ticket: 040698

**DST#: 6**

ATTN: Steve Davis

Test Start: 2011.03.06 @ 21:30:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	m 100% m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

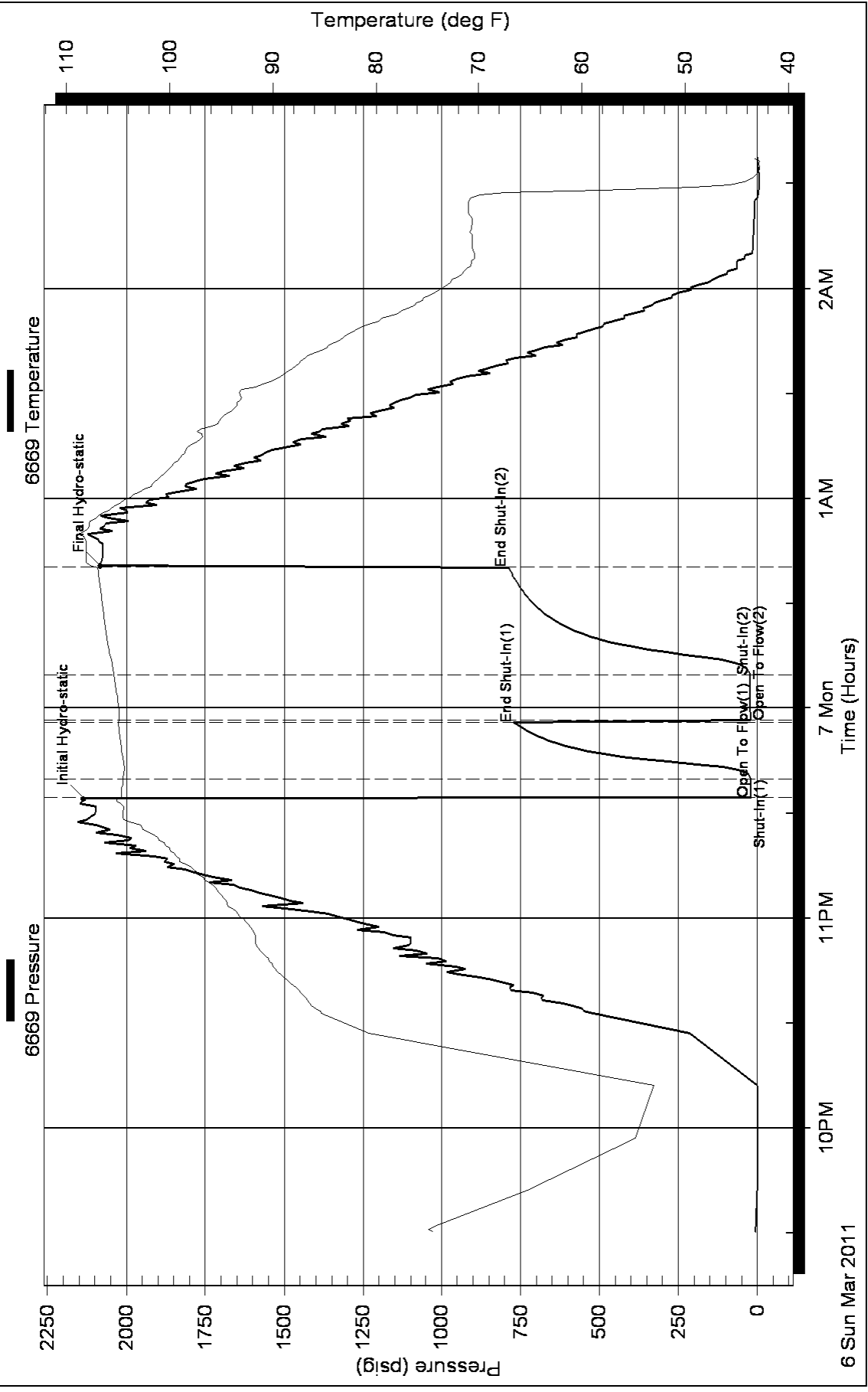
Serial #:

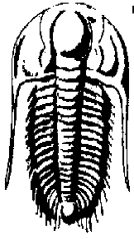
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Larson Engineering  
562 West State Rd 4  
Olmitz KS 67564  
ATTN: Steve Davis

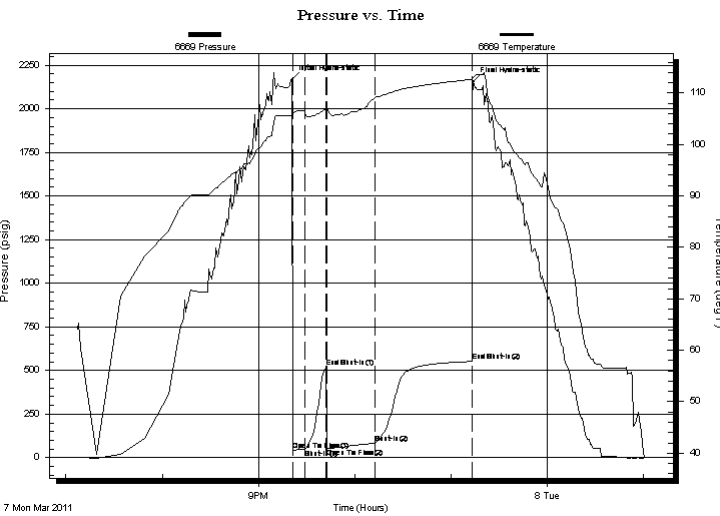
**Kim 1-17**  
**17/19/29/Lane KS**  
Job Ticket: 040699 **DST#: 7**  
Test Start: 2011.03.07 @ 19:07:15

## GENERAL INFORMATION:

Formation: **Altamont**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 21:21:15  
Time Test Ended: 01:00:45  
Interval: **4354.00 ft (KB) To 4410.00 ft (KB) (TVD)**  
Total Depth: 4410.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Mike Roberts  
Unit No: 48  
Reference Elevations: 2854.00 ft (KB)  
2849.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6669 Outside**  
Press @ Run Depth: 83.24 psig @ 4405.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2011.03.07 End Date: 2011.03.08 Last Calib.: 2011.03.08  
Start Time: 19:07:15 End Time: 01:00:45 Time On Btm: 2011.03.07 @ 21:21:00  
Time Off Btm: 2011.03.07 @ 23:13:45

TEST COMMENT: IF: Built too 1" blow  
IS: No return blow  
FF: Built to 8" blow  
FS: No return blow



## PRESSURE SUMMARY

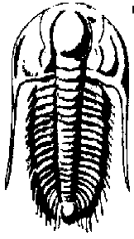
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2165.45	105.70	Initial Hydro-static
1	40.87	105.00	Open To Flow (1)
8	49.46	106.39	Shut-In(1)
21	518.75	106.81	End Shut-In(1)
22	53.29	106.76	Open To Flow (2)
52	83.24	109.11	Shut-In(2)
112	551.96	112.66	End Shut-In(2)
113	2152.86	112.94	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	m w ith oil spots	0.64

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering

**Kim 1-17**

562 West State Rd 4  
Olmitz KS 67564

**17/19/29/Lane KS**

Job Ticket: 040699

**DST#: 7**

ATTN: Steve Davis

Test Start: 2011.03.07 @ 19:07:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	m w ith oil spots	0.645

Total Length: 120.00 ft      Total Volume: 0.645 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

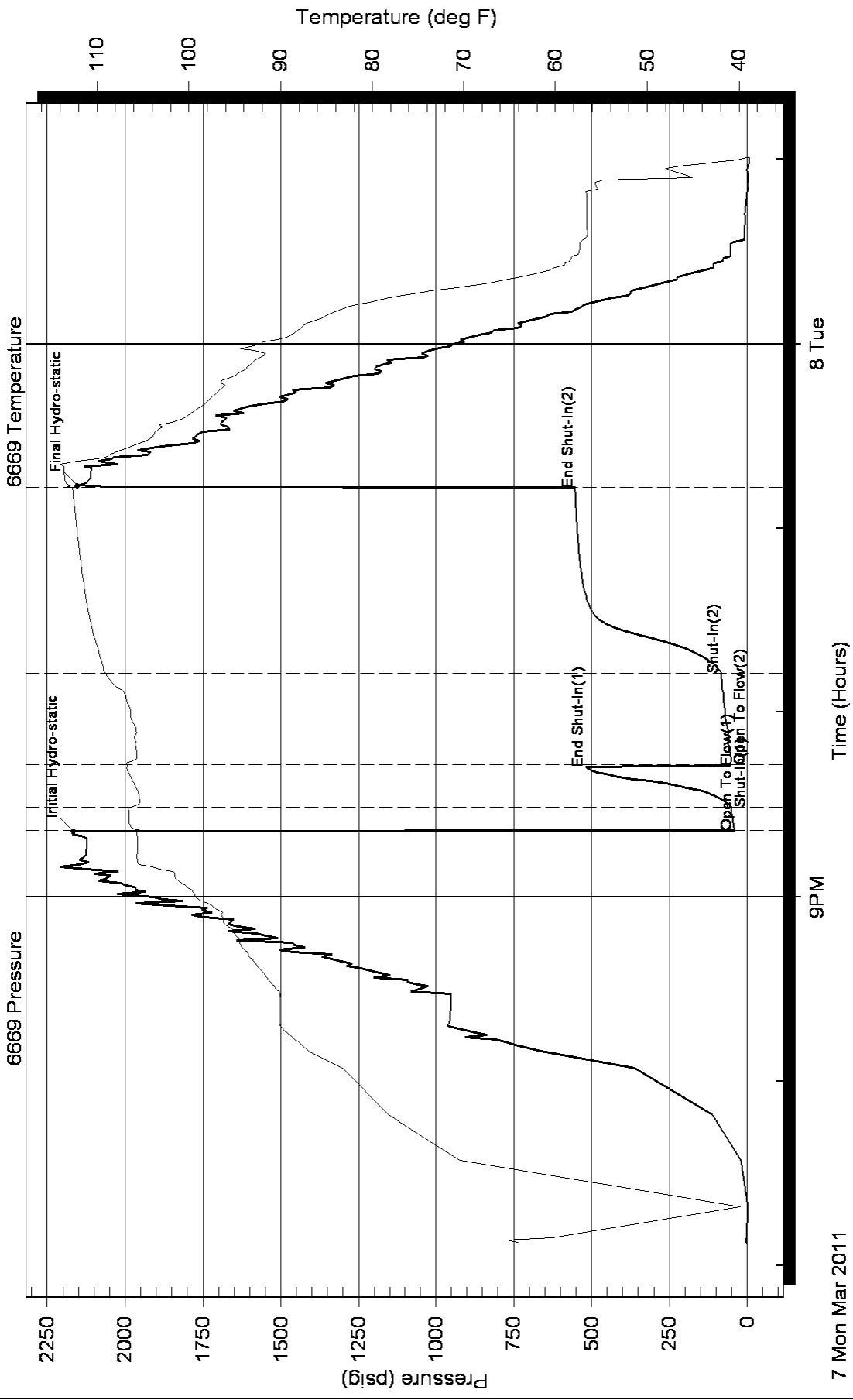
Serial #:

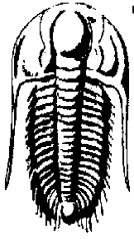
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Larson Engineering  
562 West State Rd 4  
Olmitz KS 67564  
ATTN: Steve Davis

**Kim 1-17**  
**17/19/29/Lane Co KS**  
Job Ticket: 040700 **DST#: 8**  
Test Start: 2011.03.08 @ 15:25:15

## GENERAL INFORMATION:

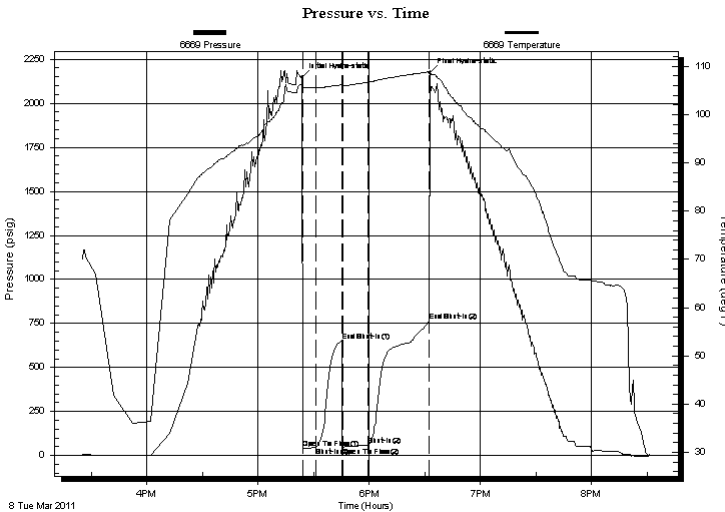
Formation: **Altamont-Pawnee**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 17:24:00  
Time Test Ended: 20:31:30  
Interval: **4400.00 ft (KB) To 4464.00 ft (KB) (TVD)**  
Total Depth: 4464.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Mike Roberts  
Unit No: 48  
Reference Elevations: 2854.00 ft (KB)  
2849.00 ft (CF)  
KB to GR/CF: 5.00 ft

## Serial #: 6669 Outside

Press @ Run Depth: 59.29 psig @ 4459.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2011.03.08 End Date: 2011.03.08 Last Calib.: 2011.03.08  
Start Time: 15:25:15 End Time: 20:31:30 Time On Btm: 2011.03.08 @ 17:23:45  
Time Off Btm: 2011.03.08 @ 18:32:30

TEST COMMENT: IF: 1/8" blow  
IS: No return blow  
FF: built to 1/2 blow in 5 min and stayed there  
FS: No return blow

## PRESSURE SUMMARY



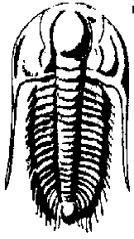
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2146.12	106.21	Initial Hydro-static
1	39.98	105.85	Open To Flow (1)
8	44.18	105.52	Shut-In(1)
22	649.58	106.15	End Shut-In(1)
22	47.95	105.98	Open To Flow (2)
36	59.29	106.73	Shut-In(2)
69	763.70	108.90	End Shut-In(2)
69	2172.58	109.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	ocm 40%o 60%m	0.34

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering

**Kim 1-17**

562 West State Rd 4  
Olmitz KS 67564

**17/19/29/Lane Co KS**

Job Ticket: 040700

**DST#: 8**

ATTN: Steve Davis

Test Start: 2011.03.08 @ 15:25:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	ocm 40%o 60%m	0.344

Total Length: 70.00 ft      Total Volume: 0.344 bbl

Num Fluid Samples: 0

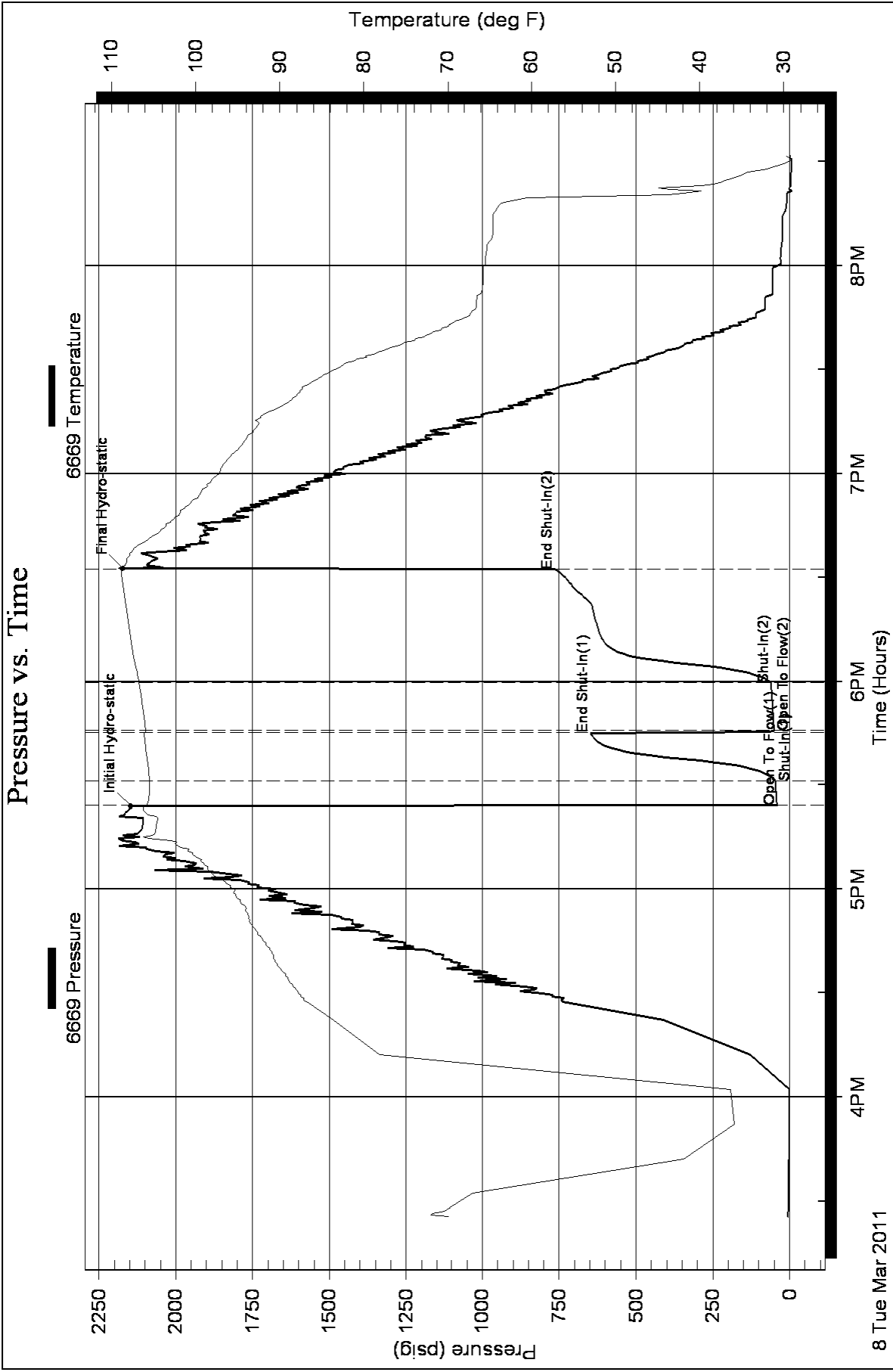
Num Gas Bombs: 0

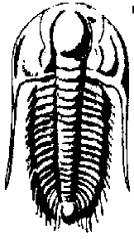
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Larson Engineering  
562 West State Rd 4  
Olmitz KS 67564  
ATTN: Steve Davis

**Kim 1-17**  
**17/19/29/Lane Co KS**  
Job Ticket: 42151 **DST#: 9**  
Test Start: 2011.03.09 @ 13:12:15

## GENERAL INFORMATION:

Formation: **Pawnee, MyRick Stati**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:12:15

Time Test Ended: 20:23:45

Test Type: Conventional Bottom Hole

Tester: Mike Roberts

Unit No: 48

**Interval: 4462.00 ft (KB) To 4572.00 ft (KB) (TVD)**

Reference Elevations: 2854.00 ft (KB)

Total Depth: 4572.00 ft (KB) (TVD)

2849.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6669 Outside**

Press @ Run Depth: 184.74 psig @ 4567.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.03.09

End Date: 2011.03.09

Last Calib.: 2011.03.09

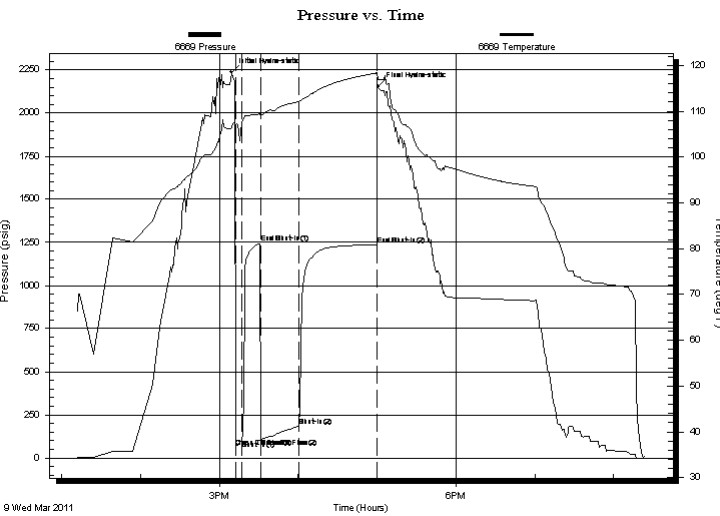
Start Time: 13:12:15

End Time: 20:23:45

Time On Btm: 2011.03.09 @ 15:09:15

Time Off Btm: 2011.03.09 @ 17:01:00

**TEST COMMENT:** IF: Built to 4" blow  
IS: No return blow  
FF: BOB in 10 min.  
FS: No return blow



## PRESSURE SUMMARY

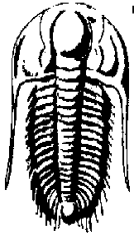
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2236.19	106.43	Initial Hydro-static
3	63.12	107.13	Open To Flow (1)
8	103.04	107.67	Shut-In(1)
22	1244.60	109.40	End Shut-In(1)
23	111.23	109.12	Open To Flow (2)
51	184.74	112.15	Shut-In(2)
111	1237.54	118.37	End Shut-In(2)
112	2153.97	116.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
306.00	gcom 10%g 30%o 60%m	3.25

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering

**Kim 1-17**

562 West State Rd 4  
Olmitz KS 67564

**17/19/29/Lane Co KS**

Job Ticket: 42151

**DST#: 9**

ATTN: Steve Davis

Test Start: 2011.03.09 @ 13:12:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
306.00	gcom 10%g 30%o 60%m	3.254

Total Length: 306.00 ft      Total Volume: 3.254 bbl

Num Fluid Samples: 0

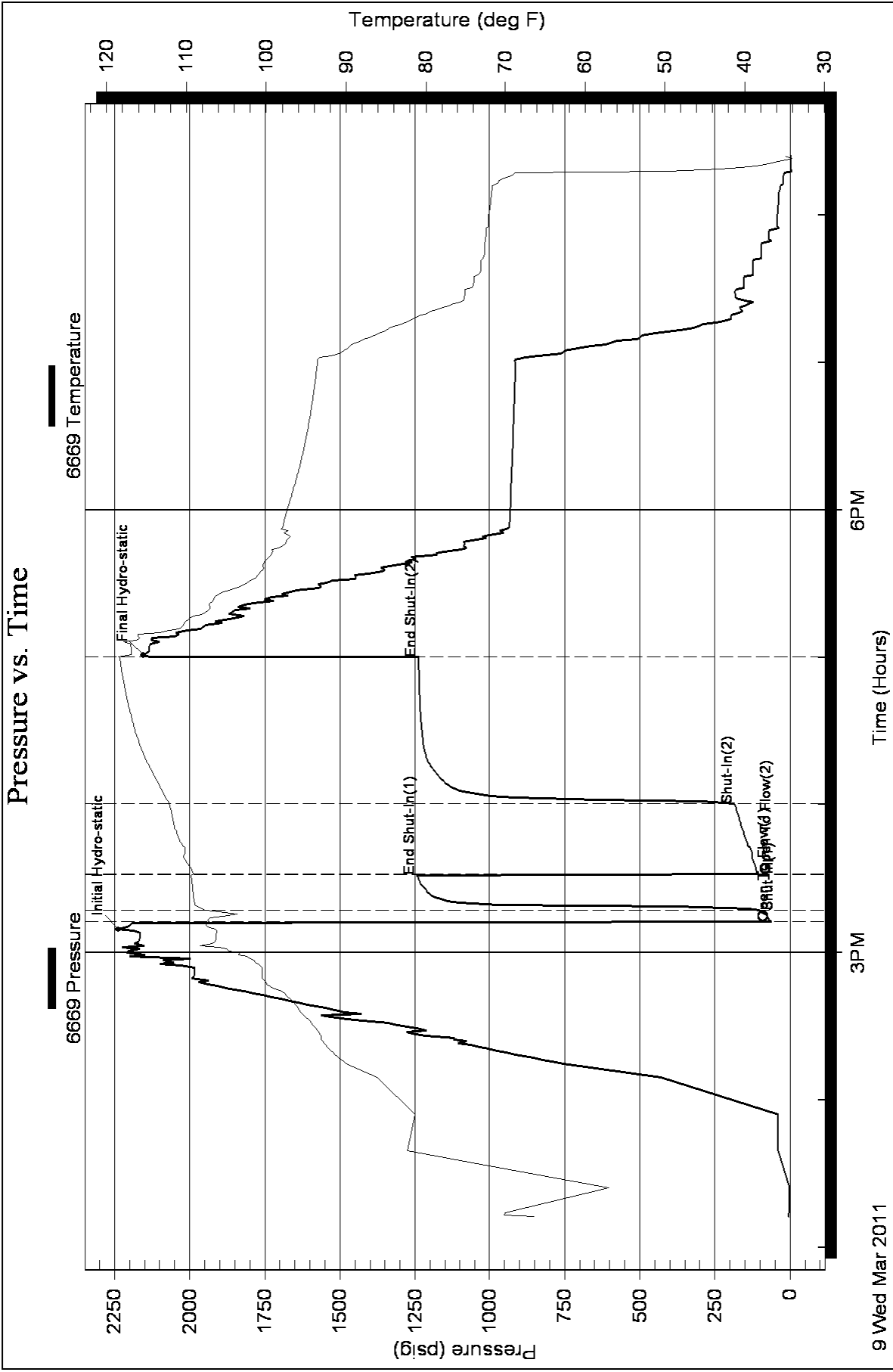
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



# RICHARD S. (Steve) DAVIS JR.

## Petroleum Geologist

212 N. Market

Wichita, Kansas 67202

Phone (316) 267-9115

### GEOLOGIST'S REPORT

#### DRILLING TIME AND SAMPLE LOG

COMPANY LARSON ENGINEERING, INC

LEASE KIM #1-17

FIELD WILDCAT

LOCATION 1617' ENL E S86 FWL

SEC 17 TWP 19S RGE 29W

COUNTY LANE STATE KANSAS

CONTRACTOR HD DRILLING RIG 3

SPUD 2-26-2011 COMP 3-10-2011

RTD 4680 LTD 4681

MUD UP 3684 TYPE MUD CHEMICAL

ELEVATIONS

KB 2856

DF \_\_\_\_\_

GL 2849

Measurements Are All From KB 2856

CASING SURFACE 18" @ 261  
PRODUCTION \_\_\_\_\_

ELECTRICAL SURVEYS  
Log Tech: COL/CNL,  
D.T.L & MICRO

SAMPLES SAVED FROM 3900 TO RTD

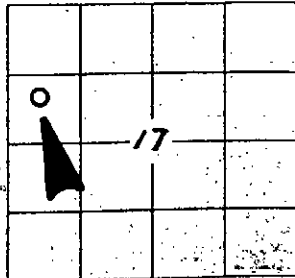
DRILLING TIME KEPT FROM 3800 TO RTD

SAMPLES EXAMINED FROM 3900 TO RTD

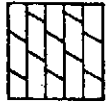
GEOLOGICAL SUPERVISION FROM 3900 TO RTD

GEOLOGIST ON WELL STEVE DAVIS

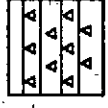
FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2180 - 4676	2184
B/ANHYDRITE	2199 - 4657	2200
HEERNER	3927 - 1071	3928
LANSING	3970 - 1114	3971
MUNCIE CREEK	4158 - 1302	4157
STARK	4259 - 1403	4260
PAWNEE	4452 - 1596	4454
CHEROKEE SH	4521 - 1665	4521
MISSISSIPPI	4598 - 1742	4599



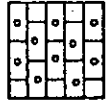
### LEGEND



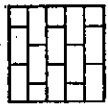
Dolomite



Chert



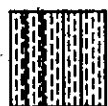
Oil Lime



Limestone



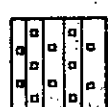
Caribsh



Shale



Sandstone

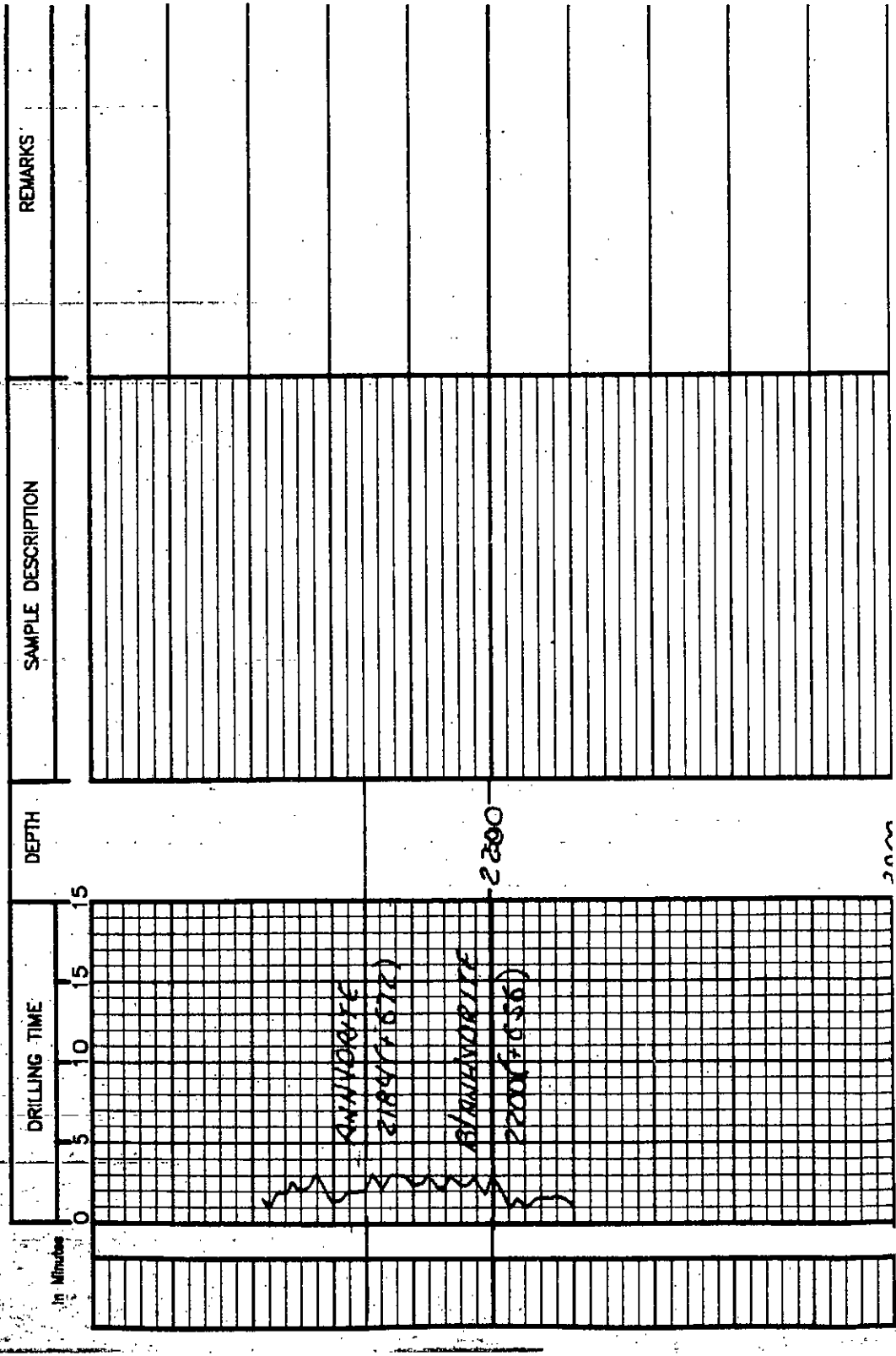


Salt



Anhydrite

SCALE " = 100'



3800

50

3900

start 10' bed & dry

HEESNER

3920 (1072)

thot shale gray, green & rust

shale AA + CS gray, ool white  
thin silty lase chky IP Pinlap

shale black carb

shale brown, gray & green + silst

50

thot shale AA + CS con tan  
thin chky lase Pinlap N.S.

CS tan gray thin lase chky  
Pinlap N.S.

shale black gray & green

CRALSING

3970 (1115)

CS con white thin lase ool IP  
chky IP Pinlap N.S.

CS con white thin chky silty  
lase ool silty + chky white

4000

CS AA + shale black green &  
rust

thot shale gray carb + CS  
con white thin chky silty ool  
rare Pinlap N.S. + chky gray  
white

CS

shale black green gray &  
rust

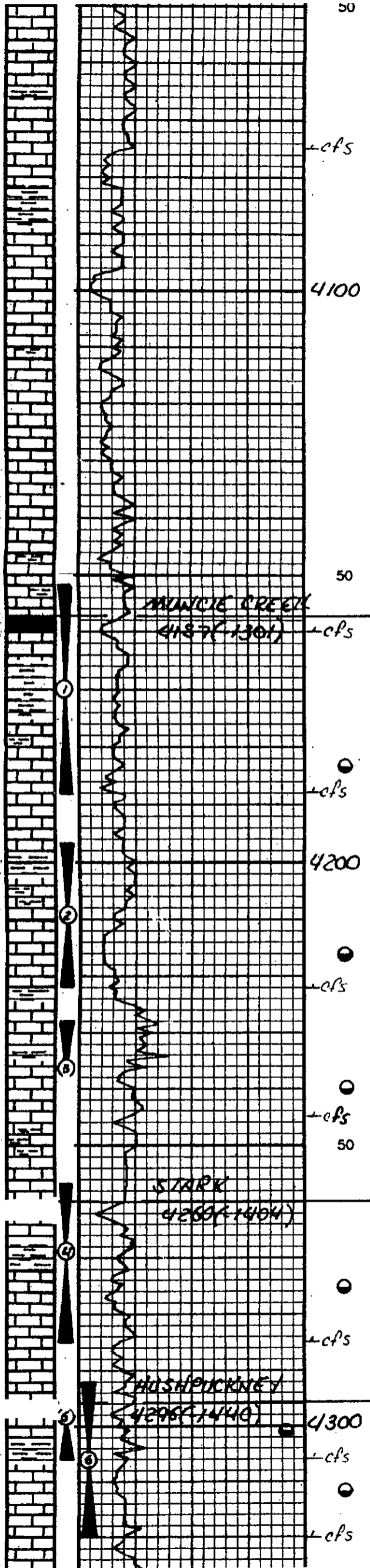
CS con gray Pinlap chky  
dense silty

50

CS tan v. thin micro xta dense

CS AA + shale black sub carb  
pyr

CS



CS. tan v. f. l. - micaceous dense  
 CS. sh. + shale black sub carb. pyr  
 CS. tan. gray f. l. - less ool. chky. P. mold. d.  
 shale black, gray + green  
 CS. cream - off white f. l. - chky. less ool. mold. d.  
 CS. tan - off white f. l. - in chky. dense  
 CS. sh. + shale gray, black, green + rust  
 CS. tan - off white v. l. - silty less dense mold.  
 CS. sh. + shale vari. col.  
 shale black carb.  
 CS. gray - brown f. l. - dense mold. d.  
 shale black, gray, green + rust  
 CS. gray - brown f. l. - silty, less F.P. var. d. + F. P. mold. d. + P. mold. d. SS.F.O. - N. odor in dry, dull fluor. + odor  
 CS. tan - gray v. l. - dense mold. d. shale vari. col.  
 CS. brown f. l. - dense mold. d. some ool.  
 CS. cream - tan f. l. - silty, ool. chky. IP. P. mold. d. + P. mold. d. SS.F.O. - N. odor in dry, dull fluor. + odor  
 CS. tan - brown v. l. - ool. IP. dense  
 CS. gray - brown f. l. - chky. IP. ool. P. mold. d. SS.F.O. - N. odor mold. d. + odor  
 CS. gray - brown f. l. - in dense mold. d. + shale black carb.  
 shale black carb. + pyr.  
 shale black, gray, green + rust  
 CS. gray - tan f. l. - silty, less ool. chky. IP. P. mold. d. + P. mold. d. SS.F.O. - N. odor in dry, dull fluor. + odor  
 CS. tan - off white f. l. - silty, less some chky. dense mold. d.  
 shale black carb.  
 CS. brown - gray v. l. - ool. + pyr. P. mold. d. SS.F.O. - N. odor in dry, dull fluor. + odor  
 CS. tan - gray v. l. - less, less flag P. mold. d. + P. mold. d. SS.F.O. - N. odor in dry, dull fluor. + odor  
 CS. tan - gray v. l. - less, less flag P. mold. d. + P. mold. d. SS.F.O. - N. odor in dry, dull fluor. + odor

Vis. 49 Wt. 9.0 Fil. 6.8  
 Chl. 1400 PH 11 CCM 5#  
 (3-3-11)

Short Trip @ 4160  
 Survey @ 4188 2°

OST #1 4152-4188  
 15-30-15-30  
 BLOW:  
 I.F. B.O.B. 2 min.  
 FF B.O.B. 1 min.  
 (No return I.S.I. or F.S.I.)  
 RECOVERY:  
 1.952 SW (100% W, chl. 19,000)  
 I.H.P. 2050#  
 I.F.P. 115-481#  
 I.S.I.P. 903#  
 F.F.P. 493-657#  
 F.S.I.P. 906#  
 F.H.P. 2001# B.H.T. 126°F

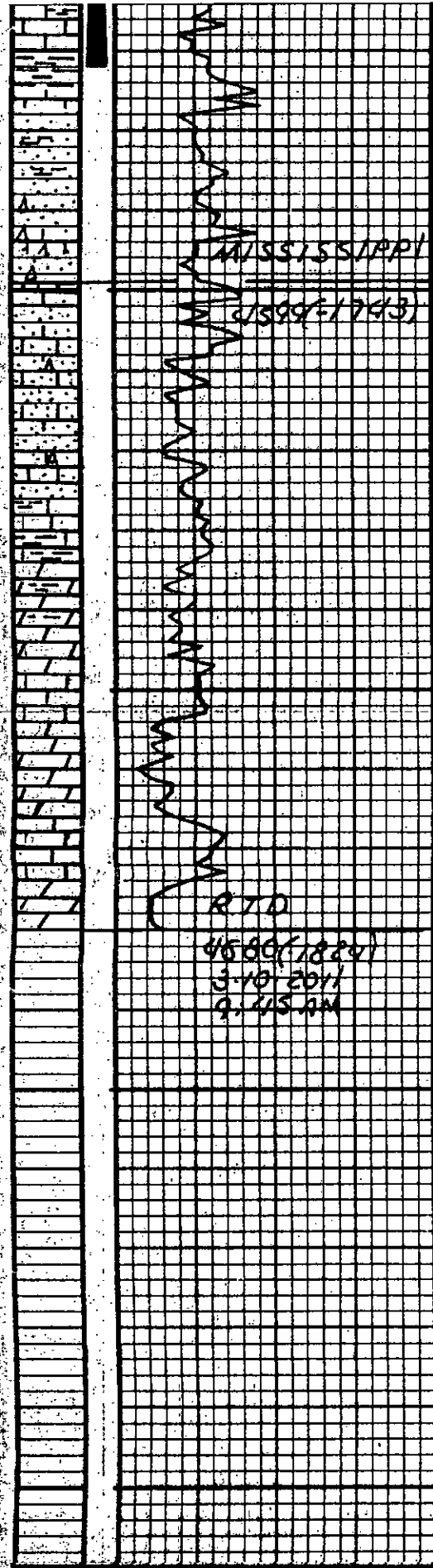
Vis. 47 Wt. 9.1 Fil. 7.6  
 Chl. 2100 PH 10.5 CCM 1#  
 (3-4-11)  
 Pipe strap @ 4222  
 4.18 long (windy)

OST #2 4197-4222  
 5-15-30-60  
 BLOW:  
 I.F. 1 1/2"  
 FF Weak surface  
 (No return I.S.I. or F.S.I.)  
 RECOVERY:  
 5' F.O. (100% oil)  
 215' O.C.W.M. (10% 40% W 50% M)  
 244' SW (chl. 20,000)  
 465' TOTAL FLUID  
 I.H.P. 2060#  
 I.F.P. 31.89#  
 I.S.I.P. 1057#  
 F.F.P. 93-220#  
 F.S.I.P. 1057#  
 F.H.P. 2093# B.H.T. 124°F

@ 4245 Vis. 49 Wt. 9.3 Fil. 6.4  
 Chl. 2100 PH 10 CCM 1#  
 (3-5-11)

OST #3 4228-4245  
 5-15-15-30  
 BLOW:  
 I.F. Weak surface  
 FF Weak surface  
 O.C.M.F.O.V. S'M





soft dk sh, solid dull floor  
 the odor  
 CS gray-brown w/ micro xh silty  
 loss dense mud  
 SS gray-crm v. fine md well sort  
 comp. P. 10 N.S.F.O. N. floor  
 N-odor & shale gray-green  
 AA & CS tan-gray v. sh silty loss  
 NVD 1 ch. tan app.  
 CS crm-off white silty sdy  
 chky, LP NVD  
 CS crm-off white sdy NVD &  
 SS white v. fine rd well sort  
 comp. P. 10 N.S. & ch. em. tan  
 app.  
 Abnt shale black, green, gray &  
 rust & CS crm-off white fine  
 silty sdy silty loss mud  
 CS AA & Data tan-gray fine  
 P. 10 N.S. & sh. var. col.  
 Data AA & CS gray-brown P. 10  
 silty loss mud  
 Data gray-brown P. 10 dense  
 silty loss P. 10 & P. 10 N.S.  
 CS tan-gray P. 10 loss and  
 some chky mud  
 Data brown P. 10 P. 10  
 dense N.S.

F.F. 1/2" throughout  
 RECOVERY:  
 70' O.C.M. (40% O 60% M)  
 I.H.P. 2146#  
 I.F.P. 39-44#  
 I.S.I. 649#  
 F.F.P. 47-59#  
 F.S.I.P. 763#  
 F.H.P. 2172# B.H.T. 108°F  
 @ 4572 Vis. 50 Wt 9.3 Fil. 7.2  
 Chl. 2,100 PH 10.5 CCM 1.5#  
 (3-9-11)  
 DST #9 4462-4572  
 5-15-30-60  
 BLOW:  
 I.F. 4"  
 F.F. 8.0.8 10 min  
 (No return I.S.I. or F.S.I.)  
 RECOVERY:  
 306' G.E.O.C.M.  
 (10% O 30% O 60% M)  
 I.H.P. 2236#  
 I.F.P. 63-103#  
 I.S.I.P. 1244#  
 F.F.P. 111-184#  
 F.S.I.P. 1237#  
 F.H.P. 2153# B.H.T. 118°F  
 Vis 54 Wt 9.2 Fil 7.2  
 Chl 2,100 PH 10.5 CCM 1.5#  
 (3-10-11)  
 Survey @ 4680 1°

DRILLING TIME	DEPTH	SAMPLE DESCRIPTION	REMARKS
In Minutes 0 5 10 15 30			

# ALLIED CEMENTING CO., LLC. 038729

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Cassat Bricks

DATE <u>3-11-11</u>	SEC. <u>17</u>	TWP. <u>19</u>	RANGE <u>29</u>	CALLED OUT	ON LOCATION	JOB START <u>4:30 am</u>	JOB FINISH <u>5:00 am</u>
LEASE <u>Kim</u>	WELL# <u>1-17</u>	LOCATION <u>Oryden KS SW, 5 1/2 South</u>			COUNTY <u>Lane</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			<u>East into</u>				

CONTRACTOR H.O. Drilling #3  
 TYPE OF JOB Rotary Plug  
 HOLE SIZE 7 7/8 T.D. 2230  
 CASING SIZE 8 5/8 DEPTH  
 TUBING SIZE DEPTH  
 DRILL PIPE 4 1/2 DEPTH 2230  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG.  
 PERFS.  
 DISPLACEMENT

OWNER Larson Engineering

CEMENT  
 AMOUNT ORDERED 280 ~~52~~ 60/40 4%  
gel 1/4 # F10

COMMON <u>168</u>	@ <u>16.25</u>	<u>2730.00</u>
POZMIX <u>112</u>	@ <u>8.00</u>	<u>896.00</u>
GEL <u>10</u>	@ <u>21.25</u>	<u>212.50</u>
CHLORIDE	@	
ASC	@	
<u>F10 Seal 75#</u>	@ <u>2.70</u>	<u>202.50</u>
	@	
	@	
	@	
	@	
	@	
HANDLING <u>293</u>	@ <u>2.25</u>	<u>659.25</u>
MILEAGE <u>293 x 30 x .11</u>		<u>966.90</u>
TOTAL		<u>5,667.15</u>

**EQUIPMENT**

PUMP TRUCK CEMENTER Bobby Roller  
 # 366 HELPER Bill P  
 BULK TRUCK  
 # 341 DRIVER Lew W  
 BULK TRUCK  
 # DRIVER

**REMARKS:**

Log up Coll hole with reg mud  
1st plug at 2230ft m.w. 50sd  
2nd plug at 1400ft m.w. 80sd  
3rd plug at 700ft m.w. 50sd  
4th plug at 290ft m.w. 50sd  
5th plug at 60ft m.w. 20sd  
Rathole m.w. 80sd  
Log down

**SERVICE**

DEPTH OF JOB <u>2230</u>		
PUMP TRUCK CHARGE		<u>1250.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>60</u>	@ <u>7.00</u>	<u>420.00</u>
MANIFOLD	@	
<u>light Touch 60</u>	@ <u>4.00</u>	<u>240.00</u>
	@	

TOTAL 1910.00

CHARGE TO: Larson Engineering  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

	@	
	@	
	@	
	@	
	@	
TOTAL		

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME LEWIS TRESENER

SIGNATURE Lewis Tresener

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES ~~6000.00~~  
 DISCOUNT ~~4000.00~~ IF PAID IN 30 DAYS

# ALLIED CEMENTING CO., LLC. 040884

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Oakley KS

DATE <u>2-26-11</u>	SEC. <u>17</u>	TWP. <u>19</u>	RANGE <u>29</u>	CALLED OUT	ON LOCATION <u>9:00 pm</u>	JOB START <u>11:30 pm</u>	JOB FINISH <u>12:00 am</u>
LEASE <u>Kim</u>	WELL# <u>1-17</u>	LOCATION <u>Dighton Sw-5125</u>		COUNTY <u>Lane</u>	STATE <u>KS</u>		
OLD OR <u>NEW</u> (Circle one)				<u>en</u>			

CONTRACTOR H-D #3

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 265'

CASING SIZE 8 5/8 DEPTH 265'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 15.9

OWNER

CEMENT

AMOUNT ORDERED 175 gals Cem

390cc 290gel

EQUIPMENT

PUMP TRUCK CEMENTER Fuzzy

# 423 HELPER Alan

BULK TRUCK

# 404 DRIVER La Bone

BULK TRUCK

# DRIVER

COMMON	<u>175</u>	@ <u>15<sup>45</sup></u>	<u>2703<sup>75</sup></u>
POZMIX		@	
GEL	<u>3</u>	@ <u>20<sup>80</sup></u>	<u>62<sup>40</sup></u>
CHLORIDE	<u>6</u>	@ <u>58<sup>20</sup></u>	<u>349<sup>20</sup></u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>184</u>	@ <u>2<sup>40</sup></u>	<u>441<sup>60</sup></u>
MILEAGE	<u>10 x 5K + mile</u>		<u>1288<sup>00</sup></u>
TOTAL			<u>4844<sup>95</sup></u>

REMARKS:  
cement did circulate  
Approx 7 BBLs

Job complete @ 12:00 am

CHARGE TO: Larson Engineering

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB 265'

PUMP TRUCK CHARGE 1018<sup>00</sup>

EXTRA FOOTAGE @

MILEAGE 70 @ 7<sup>00</sup> 490<sup>00</sup>

MANIFOLD @

TOTAL 1508<sup>00</sup>

PLUG & FLOAT EQUIPMENT

@

@

@

@

TOTAL

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME LEWYNE TRESNER

SIGNATURE Lewyne Tresner

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

June 23, 2011

Thomas Larson  
Larson Engineering, Inc. dba Larson Operating  
Company  
562 W STATE RD 4  
OLMITZ, KS 67564-8561

Re: ACO1  
API 15-101-22279-00-00  
Kim 1-17  
NW/4 Sec.17-19S-29W  
Lane County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Thomas Larson